Mediæval interpretation was as the larva of a Pyralid moth, the *ips* of Aristotle, *convolvulus* of Pliny, *volucra* of Columnella, *involvulus* of Plautus. These beasts were principally known to the Romans from those which webbed up the grape leaves. We can catch a vague clue from the wording in Jeremiah, LI, 27, where it is called "rough." This might mean hairy. In Revelations, IX, 3, a highly allegorical passage, there is mentioned locusts having power like scorpions, shaped like horses, teeth like lions, and "hair as the hair of women." The Arabs keep this as a popular superstition, having several words to describe a hairy locust. If any word in the Old Testament, sometimes regarded as meaning some kind of Orthopterous crop pest, might be properly a lepidopterous larva it is surely this *jelek*, a hairy caterpillar commending itself to the simple early observers as such, no other description being so terse and applicable.

As solam occurs once only, it can be judged only by the context as a flying, creeping thing, permissible as food, and mentioned in Orthopterous company. All commentators agree in placing it as a *Gryllus* or locustid.

The last of the words possibly meaning a locustid is the *tzaltzal*, mentioned only in Deuteronomy, XXVIII, 42, "all thy trees and fruit shall the locust consume." The onomatopæa of the name suggest the orthopteron, but one wonders why a new name for something so like the *arbch* or *gob*. The Chaldean Targum translates as *zebub*, the general term for insect.

KEY FOR THE SPECIFIC IDENTIFICATION OF THE FEMALES OF THE DIPTEROUS GENUS HYDROTÆA FOUND IN NORTH AMERICA.

By J. R. Malloch, Urbana, Ill.

The key presented herewith includes all species of *Hydrotæa* which have been recorded as occurring in North America with the exception of *bispinosa* Zetterstedt, and *cressoni* Malloch. I have seen no examples of *bispinosa* from this country. A specimen in our collection so named by Coquillett, is *metatarsata*

Stein, female. The record of the occurrence of bispinosa in North America requires confirmation. The female of cressoni Malloch is unknown.

I have included *scambus* Zetterstedt in the key, basing the record upon a female specimen taken at Grant, Colorado, July 13, 1916 (E. C. Jackson).

The male of this species was not included in my key to this sex in a previous paper in this Bulletin,* as I did not then know of its occurrence in this country. The male will run down to caption 3 in that key and may be separated from occulta by the bare eyes and from both occulta and acuta, the two species in the caption, by the curved hind femora and by the tibiæ, the latter being thin to about the middle and then suddenly thickened, with a strong apically curved thorn at the beginning of the thickened part, and the anterior surface furnished with a series of long bristly hairs.

This species is rare in Europe and not heretofore recorded from North Amercia. Although I have seen only the female, the species is so characteristic that there is little doubt as to its identity.

It may be of interest to record the occurrence of *militaris* Meigen in British Columbia. This European species was recorded by Stein from the eastern states.

The females of this genus may be separated from those of Phaoniinæ by the following combination of characters: Frons broad, occupying at least one third the head-width; orbits more or less glossy, well differentiated, with at least the anterior supraorbital bristle directed forward (except in my specimen of ciliata); interfrontal cruciate bristles well developed; cheeks almost linear; mesonotum with 4 pairs of postsutural dorso-centrals; sternopleura with 2 bristles·(I:I); apical abdominal segment without thorns; legs with few bristles; sixth vein incomplete.

The most closely related genera so far known to occur in this country are *Ophyra* and *Pogonomyia*. The latter has conspicuously bristled tibiæ and much stronger prealer bristle; the former has the ocellar triangle carried well beyond the cruciate bristles

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(leucostoma), the anterior 2 pairs of postsutural dorso-centrals much more reduced in size, and the pteropleura pubescent.

KEY TO SPECIES.

TELL TO STECIES.
I. Halteres yellow 2
Halteres black 3
2. Fore tibia with an antero-ventral bristle; glossy blue-black species
with apical dorsal abdominal segment white pruinescent,
ciliata Fabricius.
Fore tibia without an antero-ventral bristle; dull black or yellowish
species, without conspicuous white pruinescence on apical seg-
ment 2a
2a. Opaque grayish black species with black legs and palpi, irritans Fallen.
Thorax gray, abdomen yellowish at base; legs and palpi yellow,
succeedens Stein.
3. Mid tibia with a strong ventral bristle about middle 4
Mid tibia without ventral bristle 5
4. Fore and mid tibiæ each with a short antero-dorsal bristle; hind
femora with a series of short hairs at base and apex and 2 long
fine hairs, one at one third and the other at two thirds from base;
ventral bristle on mid tibia much beyond middle militaris Meigen.
Fore and mid tibiæ without antero-dorsal bristle; hind femora without
the above-mentioned hairs; ventral bristle on mid tibia before
middlescambus Zetterstedt.
5. Mid tibiæ with a bristle on anterior side
Mid tibia without a bristle on anterior side
6. Mid tibia with 2 bristles and a series of short setulæ on antero-dorsal
surface; dorsum of thorax opaque gray with 3 broad brownish
vittæpalaestrica Meigen.
Mid tibia with I bristle on antero-dorsal surface; dorsum of thorax
shining, distinctly quadrivittate anteriorly
7. Ocellar triangle grayish, the region immediately surrounding ocelli
polished black; mid femora without long bristles at base ventrally,
dentipes Fabricius.
Ocellar triangle shining black, only the posterior lateral angles gray
pruinose; mid femora with several long bristles on antero- and
postero-ventral surface at basehoughi Malloch.
8. Hind tibia with 1 bristle near apex on postero-dorsal surface; ocellar
triangle, unless abraded, with dense gray pruinescence so that it
appears almost entirely opaquearmipes Fallen.
Hind tibia with a bristle at or beyond middle on postero-dorsal sur-
face in addition to the one near apex
9. Presutural acrostichals consisting of 2-3 pairs of short stout bristles
and a few interspersed short setulæ 10
Presutural acrostichals consisting of from 4 to 6 series of short setu-
1 Teactural acrosticitate consisting of from 4 to 0 series of short seta

læ, the posterior 3-4 on each side sometimes stronger than the 10. Ocellar triangle opaque or subopaque, nowhere polished; acrostichal bristles long and slender, the interspersed hairs rather numerous and regularmeteorica Linné. Ocellar triangle polished, acrostichal bristles short and stout, the interspersed hairs sparse and irregular II 11. Large species, 4.5 mm. in length; mid tibia with 3 posterior bristles; hind tibia with 3-4 antero-ventral bristles.....occulta Meigen. Smaller species, 3.5-4 mm, in length; mid tibia normally with 2 bristles: hind tibia with 2 antero-ventral bristles.....acuta Stein. 12. Ocellar triangle glossy only on a small space in front of ocelli; mid tibia with 2 posterior bristles; mid tarsi slender, basal joint about 10 times as long as its diameter, the ventral surface with short closely placed subdepressed bristles......unispinosa Stein. Ocellar triangle almost entirely polished; mid tibia normally with 3 posterior bristles; mid tarsi moderately stout, basal joint about 8 times as long as its diameter, the ventral bristles long, rather widely

A NEW TIGER-BEETLE FROM TEXAS.

By WM. T. DAVIS, New Brighton, Staten Island, N. Y.

In the summer of 1917 I received a tiger-beetle from Tascosa, Oldham Co., Texas, collected by Miss Mildred McGill, that was new to my collection. It also proved to be new to Mr. Charles W. Leng and to Mr. Edward D. Harris. Mr. Harris compared the insect with specimens in his extensive collection and concluded that it belonged near Cicindela roseiventris Chevrolat from Mexico, but was not that species, nor was it like his series of the subspecies mexicana Klug. Cicindela belti Bates from Costa Rica is a synonym of mexicana, according to Dr. Walther Horn. Another subspecies of mexicana is linearis W. Horn, also from Costa Rica. In the description of this insect it is stated that the margins of the female elytra are much dilated at middle; markings composed of exceedingly fine lines, but not reduced. In the three males and three females from Tascosa, the latter have the elytra slightly dilated at the middle, and the markings, while fine are reduced, as will be seen by the accompanying illustration of the type. A more detailed description of this insect is as follows: